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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/720,431	11/24/2003	Takuji Shirasawa	2352.001	5106
23405	7590 10/13/2005		EXAM	INER
HESLIN ROTHENBERG FARLEY & MESITI PC			PRIEBE, SCOTT DAVID	
5 COLUMBI ALBANY, N		<del></del>	ART UNIT	PAPER NUMBER
			1633	

DATE MAILED: 10/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Office Action Summan	10/720,431	SHIRASAWA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Scott D. Priebe, Ph.D.	1633	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period varieties to reply within the set or extended period for reply will, by statute to reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be the state of	N. imely filed  n the mailing date of this communication.  ED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on  2a) ☐ This action is FINAL. 2b) ☒ This  3) ☐ Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final.  nce except for formal matters, pr		
Disposition of Claims			
4) ⊠ Claim(s) 1-13 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) ⊠ Claim(s) 1-13 are subject to restriction and/or expressions.	wn from consideration.		
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicated any accomplicated any objection to the Replacement drawing sheet(s) including the correct and the same accomplished to be seen as a specific problem.	epted or b) objected to by the drawing(s) be held in abeyance. So ion is required if the drawing(s) is ol	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receiv u (PCT Rule 17.2(a)).	tion No red in this National Stage	
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:		
	tion Summary P	art of Paper No./Mail Date 20051011	

## **DETAILED ACTION**

## Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-12 (as directed to part (i) of claims 1-3, 5, 7, 9, and 11), drawn to a
   method of treating a subject by administration of Titusville mutant α-globin
   protein, classified in class 514, subclass 2.
- II. Claims 1-11 (as directed to parts (ii) & (iii) of claims 1-3, 5, 7, 9, and 11), drawn to a method of treating a subject by administration of a nucleic acid encoding
   Titusville mutant α-globin protein, classified in class 514, subclass 44.
- III. Claim 13, drawn to a transgenic non-human animal comprising a nucleic acid encoding Titusville mutant α-globin protein, classified in class 800, subclass 13.

The inventions are distinct, each from the other because of the following reasons:

Inventions I, II and III are unrelated to each other. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). Inventions I and II are not disclosed as being used together, and the methods, relating to protein therapy and gene therapy, respectively, have different modes of operation with regard to the treatment parameters, and the function of the compound administered. Protein therapy and gene therapy are divergent technologies, as indicated by their separate classification. The transgenic animal of group III is not used in either invention I or II, and transgenic animals are a divergent technology

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from methods of therapy, as indicated by their separate classification. A search for any one of these inventions would not be required to search the others, and the examination issues would be different due to the different technical issues involved in each invention. It would thus be a burden to search and examine more than one of these inventions.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, the search required for each is not required for the other groups, and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott D. Priebe, Ph.D. whose telephone number is (571) 272-0733. The examiner can normally be reached on M-F, 8:00-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Nguyen can be reached on (571) 272-0731. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Scott D. Priebe, Ph.D.

Stott D. Inele

**Primary Examiner** 

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